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01-02-01

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

Only for new nonprovisional applications under 37 C.F.R. 1.53(b)

Attorney Docket No.	NTL-3.2.145/3518 (12810R0US01U)
First Inventor	Shiquan Wu et al.
Title	SYNCHRONIZATION IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) ORTHOGONAL FREQUENCY MULTIPLEXING (OFDM) SYSTEM FOR WIRELESS COMMUNICATIONS
Express Mail Label No.	EL401216579US

C91751881  
IPR  
ISION  
09/751881  
12/22/00

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

1. [ X ] \*Fee Transmittal Form (e.g., PTO/SB/17)  
(submit an original, and a duplicate for fee processing)

2. [ X ] Specification Total Pages [ 32 ]  
(preferred arrangement set forth below)

- Descriptive title of the invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the invention
- Brief Summary of the invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

3. [ X ] Drawing(s) (35 U.S.C. 113) Total Pages [ 5 ]

4. Oath or Declaration Total Pages [ 1 ]

a. [ X ] New unexecuted (original or copy)

b. [ ] Copy from a prior application (37 CFR §1.63(d))  
(for continuation/divisional with box 16 completed)

i. [ ] DELETION OF INVENTOR(S)  
Signed statement attached deleting  
inventor(s) named in the prior application,  
see 37 CFR §§ 1.63(d)(2) and 1.33(b).

**\*NOTE FOR ITEMS 1 & 13:** IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.26).

5. [ ] Microfiche Computer Program (Appendix)

6. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)

a. [ ] Computer Readable Copy

b. [ ] Paper Copy (identical to computer copy)

c. [ ] Statement verifying identity of above copies

## **ACCOMPANYING APPLICATION PARTS**

7. [ ] Assignment Papers (cover sheet & document(s))

8. [ ] 37 C.F.R. §3.73(b) Statement [ ] Power of Attorney  
(when there is an assignee)

9. [ ] English Translation Document (if applicable)

10. [ ] Information Disclosure [ ] Copies of IDS Citations  
Statement (IDS)PTO-1449

11. [ ] Preliminary Amendment

12. [ X ] Return Receipt Postcard (MPEP 503)  
(should be specifically itemized)

13. [ ] \*Small Entity [ ] Statement filed in prior application  
Statement(s) (PTO/SB/09-12) Status still proper and  
desired

14. [ ] Certified Copy of Priority Document(s)  
(if foreign priority is claimed)

15. [ ] Other:

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

[ ] Continuation [ ] Divisional [ ] Continuation-in-part (CIP) of prior application No.: /

Prior application information: Examiner \_\_\_\_\_ Group/Art Unit: \_\_\_\_\_

**For CONTINUATION or DIVISIONAL APPS. Only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered to be part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**17. CORRESPONDENCE ADDRESS**

Customer Number or Bar Code Label : **26784** : or  Correspondence address below  
(Insert Customer No. or Attach bar code label here)

Name	COBRIN & GITTES				
Address	750 Lexington Avenue, 21 floor				
City	New York	State	New York	Zip Code	10022
Country	U.S.A.	Telephone	(212) 486-4000	Fax	(212) 486-4007
Name (Print/Type)		Lawrence E. Russ	Registration No. (Attorney/Agent)	35,342	
Signature			Date	December 29, 2000	

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

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**FEE TRANSMITTAL**  
**for FY 2000**

Patent fees are subject to annual revision. Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.

<b>FEE TRANSMITTAL</b> <b>for FY 2000</b>						<i>Complete if Known</i>				
						Application Number		To be assigned		
						Filing Date		Concurrently Herewith		
						First Named Inventor		Shiquan Wu et al.		
						Group Art Unit		to be assigned		
						Examiner		to be assigned		
<b>TOTAL AMOUNT OF PAYMENT</b>		(\$) <b>1042.00</b>		Attorney Docket No.		NTL-3.2.145/3518 (12810ROUS01U)				
<b>METHOD OF PAYMENT</b> (check one)				<b>FEES CALCULATION (continued)</b>						
1. [x] The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:  Deposit Account Number: 03-2317  Deposit Account Name: COBRIN & GITTES  [x] Charge any additional fee required under 37 CFR 1.16 and 1.17				3. ADDITIONAL FEES						
				Large Entity		Small Entity				
				Code	(\$)	Code	(\$)	Fee Description	Fee Paid	
				105	130	205	65	Surcharge - Late filing fee or oath		
2. [x] Payment Enclosed:  [x] Check      [ ] Money Order      [ ] Other				127	50	227	25	Surcharge - late provisional filing fee or cover sheet		
				139	130	139	130	Non-English specification		
<b>FEES CALCULATION</b>				147	2,520	147	2,520	Request for Reexamination		
1. <b>BASIC FILING FEE</b>				112	920*	112	920*	Req. publication of SIR prior to Examiner action		
Large Entity		Small Entity		113	1,840	113	1,840	Requesting publication of SIR after Examiner action		
Code	(\$)	Code	(\$)	Fee Description	Fee Paid	115	110	215	55	Extension within first month
101	710	201	355	Utility filing fee	\$710.00	116	390	216	195	Extension within second month
106	320	206	160	Design filing fee		117	890	217	445	Extension within third month
107	490	207	245	Plant filing fee		118	1,390	218	695	Extension within fourth month
108	710	208	355	Reissue filing fee		128	1,890	228	945	Extension within fifth month
114	150	214	75	Provisional filing fee		119	310	219	155	Notice of Appeal
<b>SUBTOTAL (1)</b>				\$710.00	120	310	220	155	Brief in support of an appeal	
2. <b>EXTRA CLAIM FEES</b>				121	270	221	135	Request for oral hearing		
		Extra Claim	Fee below	Fee Paid	138	1,510	138	1,510	Petition to institute a public use proceeding	
Total Claims	34	-20 =	14 x	9 or 18	252.00	140	110	240	55	Petition to revive - unavoidable
Indep. Claims	4	-3 =	1 x	40 or 80	80.00	141	1,210	241	605	Petition to revive - unintentional
Multiple Dependent				130		142	1,240	241	620	Utility issue fee (or reissue)
** or number previously paid, if greater; for reissues, see below					143	440	243	220	Design issue fee	
Large Entity		Small Entity			144	600	244	300	Plant issue fee	
Code	(\$)	Code	(\$)	Fee Description	122	130	122	130	Petitions to the Commissioner	
103	18	203	9	Claims in excess of 20	123	50	123	50	Petitions related to provisional applications	
102	80	202	40	Independent claims in excess of 3	126	240	126	240	Submit Info. Disclosure Stmt	
104	270	204	135	Multiple dependent claim, if not paid	581	40	581	40	Patent Assignment per property	
109	80	209	40	**Reissue independent claims over original patent	146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))	
110	18	210	9	**Reissue claims in excess of 20 and over original patent	149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))	
<b>SUBTOTAL (2)</b>				(\$) <b>332.00</b>	Other fee (specify)					
					*Reduced by Basic filing fee Paid				<b>SUBTOTAL (3)</b>	0
<b>SUBMITTED BY</b>				<i>Complete (if applicable)</i>						
Typed or Printed Name		Lawrence E. Russ		Registration Number		35,342				
Signature		<i>Lawrence E. Russ</i>		Date	December 29, 2000					

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